

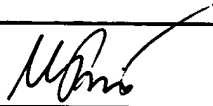

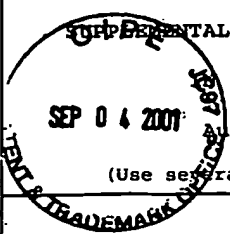
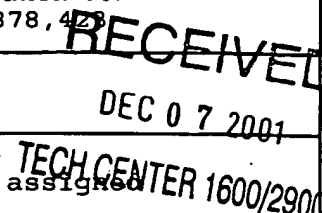



PTO-1449 REPRODUCED				ATTORNEY DOCKET NO. 2739.2004-001		APPLICATION NO. CIP of Iceland No. 5863	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION June 11, 2001 (Use several sheets if necessary)				APPLICANT Arnthor Aearsson, et al.			
				FILING DATE		GROUP	
U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
MM	AA	6,001,574	12/14/99	Short et al.	435	6	
MM	AB	5,763,239	6/9/98	Short et al.	435	172	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
MM	AR	Hansson, Malin, "The development of an amplification method using only one gene specific primer for isolation of α -amylase genes directly from high complexity DNA," Lund Institute of Technology, Student Thesis, February 1999.					
	AS	Thompson, J.D., et al., "CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice," <i>Nucl. Acids Research</i> 22(22):4673-4680 (1994).					
	AT	Woo, S.-S., et al., "Construction and characterization of a bacterial artificial chromosome library of <i>Sorghum bicolor</i> ," <i>Nucl. Acids Research</i> 22(22):4922-4931 (1994).					
	AU	Buckling, A., et al., "Disturbance and diversity in experimental microcosms," <i>Nature</i> 408: 961-964 (2000).					
	AV	Bateman, A., et al., "Pfam 3.1: 1313 multiple alignments and profile HMMs match the majority of proteins," <i>Nucl. Acids Research</i> 27(1):260-262 (1999).					
	AW	Connell, J.H., "Diversity in Tropical Rain Forests and Coral Reefs," <i>Science</i> 199:1302-1309 (1978).					
	AX	Rose, T.M., et al., "Consensus-degenerate hybrid oligonucleotide primers for amplification of distantly related sequences," <i>Nucl. Acids Research</i> 26(7):1628-1635 (1998).					
	AY	Takehiko, Y., "Enzyme Chemistry and Molecular Biology of Amylases and Related Enzymes," <i>The Amylase Research Society of Japan</i> , eds. (Boca Raton, Ann Arbor, London Tokyo: CRC Press) pp. 83-99 (1994).					
	AZ	Fry, J.C., "Oligotrophs," In <i>Microbiology of extreme environments</i> , C. Edwards eds., (Milton Keynes: Open University Press) pp. 94-116 (1990).					
	AR2	Santegoeds, C.M., et al., "Denaturing Gradient Gel Electrophoresis Used To Monitor the Enrichment Culture of Aerobic Chemoorganotrophic Bacteria from a Hot Spring Cyanobacterial Mat," <i>Applied and Environmental Microbiology</i> 62(11):3922-3928 (1996).					
MM	AS2	Konradsdottir, M., et al., "In situ Enrichment of Thermophilic Acetate-Utilizing Bacteria," <i>System. Appl. Microbiol.</i> 14:190-195 (1991).					
EXAMINER				DATE CONSIDERED			
				12/04			

PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION June 11, 2001 (Use several sheets if necessary)				ATTORNEY DOCKET NO. 2739.2004-001		APPLICATION NO. CIP of Iceland No. 5863	
				APPLICANT Arnthor Aearsson, et al.			
				FILING DATE		GROUP	
U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
mm	AT2	Rondon, M.R., et al., "Toward functional genomics in bacteria: Analysis of gene expression in <i>Escherichia coli</i> from a bacterial artificial chromosome library of <i>Bacillus cereus</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 96:6451-6455 (1999).					
	AU2	Rondon, M.R., et al., "Cloning the Soil Metagenome: a Strategy for Accessing the Genetic and Functional Diversity of Uncultured Microorganisms," <i>Applied and Environmental Microbiology</i> , 66(6):2541-2547 (2000).					
	AV2	Reysenbach, A.-L., et al., "Differential Amplification of rRNA Genes by Polymerase Chain Reaction," <i>Applied and Environmental Microbiology</i> , 58(10):3417-3418 (1992).					
	AW2	Reysenbach, A.-L., et al., "Phylogenetic Analysis of the Hyperthermophilic Pink Filament Community in Octopus Spring, Yellowstone National Park," <i>Applied and Environmental Microbiology</i> , 60(6):2113-2119 (1994).					
	AX2	Morris, D.D., et al., "Correction of the β -Mannanase Domain of the <i>celC</i> Pseudogene from <i>Caldocellulosiruptor saccharolyticus</i> and Activity of the Gene Product on Kraft Pulp," <i>Applied and Environmental Microbiology</i> , 61(6):2262-2269 (1995).					
	AY2	Hugenholtz, P., et al., "Novel Division Level Bacterial Diversity in a Yellowstone Hot Spring," <i>Journal of Bacteriology</i> 180(2):366-376 (1998).					
	AZ2	Großkopf, R., et al., "Diversity and Structure of the Methanogenic Community in Anoxic Rice Paddy Soil Microcosms as Examined by Cultivation and Direct 16S rRNA Gene Sequence Retrieval," <i>Applied and Environmental Microbiology</i> , 64(3):960-969 (1998).					
	AR3	Skirnisdottir, S., et al., "Influence of Sulfide and Temperature on Species Composition and Community Structure of Hot Spring Microbial Mats," <i>Applied and Environmental Microbiology</i> , 66(7):2835-2841 (2000).					
mm	AS3	Marteinson, V.T., et al., "In situ enrichment and isolation of thermophilic microorganisms from deep-sea vent environments," <i>Canadian Journal of Microbiology</i> 43(7):694-697 (1997).					
EXAMINER				DATE CONSIDERED			
							

PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION June 11, 2001 (Use several sheets if necessary)				ATTORNEY DOCKET NO. 2739.2004-001		APPLICATION NO. CIP of Iceland No. 5863	
				APPLICANT Arnthor Aearsson, et al.			
				FILING DATE		GROUP	
U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
mm	AT3	Fridjonsson, O., et al., "The structure of the α -galactosidase gene loci in <i>Thermus brockianus</i> ITI360 and <i>Thermus thermophilus</i> TH125," <i>Extremophiles</i> 4:23-33 (2000).					
	AU3	DeLong, E.F., "Archaea in coasal marine environments," <i>Proc. Natl. Acad. Sci. USA</i> 89:5685-5689 (1992).					
	AV3	Barns, S.M., et al., "Remarkable archael diversity detected in a Yellowstone National Park hot spring environment," <i>Proc. Natl. Acad. Sci. USA</i> 91:1609-1613 (1994).					
	AW3	Amann, R.I., "Phylogenetic Identification and In Situ Detection of Individual Microbial Cells without Cultivation," <i>Microbiological Reviews</i> 59(1):143-169 (1995).					
	AX3	Reysenbach, A.-L., "Microbial diversity at 83°C in Calcite Springs, Yellowstone National Park: another environment where the Aquificales and "Korarchaeota" coexist," <i>Extremophiles</i> 4:61-67 (2000).					
	AY3	Stainthorpe, A.C. and Williams, R.A.D., "Isolation and Properties of <i>Clostridium thermocellum</i> from Icelandic Hot Springs," <i>International Journal of Systematic Bacteriology</i> 38(1):119-121 (1988).					
	AZ3	Roszak, D.B. and Colwell, R.R., "Survival Strategies of Bacteria in the Natural Environment," <i>Microbiological Reviews</i> 51(3):365-379 (1987).					
mm	AR4	Huber, R., et al., " <i>Thermocrinis ruber</i> gen. nov., sp. nov., a Pink-Filament-Forming Hyperthermophilic Bacterium Isolated from Yellowstone National Park," <i>Applied and Environmental Microbiology</i> , 64(10):3576-3583 (1998).					
EXAMINER 				DATE CONSIDERED 			

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2739.2004-001		APPLICATION NO. 09/878,423			
		APPLICANT Arnthor Aevarrsson, et al.					
		FILING DATE June 11, 2001				GROUP Not assigned	
U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AS4	Hol, Wim, G.J., "Structural genomics for science and society", <i>Nature Structural Biology, Structural genomics supplement</i> , 964-966 (2000).					
	AT4	Hendrickson, W.A., "Synchrotron crystallography", <i>Trends Biochem Sci</i> , 637-643 (2000).					
	AU4	Burley, S.K., "An overview of structural genomics", <i>Nature Structural Biology, Structural genomics supplement</i> , 932-934 (2000).					
	AV4	Cassetta, A., et al., "Development of instrumentation and methods for MAD and structural genomics at the SRS, ESRF, CHESS and Elettra facilities", <i>J. Synchrotron Rad.</i> , 6:822-833 (1999).					
	AW4	Terwilliger, T.C., et al., "Class-directed structure determination: Foundation for a Protein Structure Initiative", <i>Protein Sci</i> , 1851-1856 (1998).					
	AX4	Rost, B., "Marrying structure and genomics", <i>Structure</i> , 6:259-263 (1998).					
	AY4	Brenner, S.E., "Target selection for structural genomics", <i>Nature Structural Biology, Structural genomics supplement</i> , 967-969 (2000).					
	AZ4	Terwilliger, T.C., "Structural genomics in North America", <i>Nature Structural Biology, Structural genomics supplement</i> , 935-939 (2000).					
	AR5	Hwang, K.Y., et al., "Structure-based identification of a novel NTPase from <i>Methanococcus jannaschii</i> ", <i>Nature Structural Biology, Structural genomics supplement</i> , 691-696 (1999).					
	AS5	Yokoyama, S., et al., "Structural genomics projects in Japan", <i>Nature Structural Biology, Structural genomics supplement</i> , 943-945 (2000).					
	AT5	Shyamala, V., et al., "Genome walking by single-primer polymerase chain reaction: SSP-PCR", <i>Gene</i> , 84:1-8 (1989).					
	AU5	Christendat, D., et al., "Structural proteomics of an archaeon", <i>Nature Structural Biology</i> , 7(10):903-909 (2000).					
	AV5	Auerbach, G., et al., "Lactate dehydrogenase from the hyperthermophilic bacterium <i>Thermotoga maritima</i> : the crystal structure at 2.1 Å resolution reveals strategies for intrinsic protein stabilization", <i>Structure</i> , 6(6):769-781 (1998).					
	AW5	Macedo-Ribeiro, S., et al., "Small structural changes account for the high thermostability of [4Fe-4S]ferredoxin from the hyperthermophilic bacterium <i>Thermotoga maritima</i> ", <i>Structure</i> , 4(11):1291-1301 (1996).					
EXAMINER				DATE CONSIDERED			

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 2739.2004-001	APPLICATION NO. 09/878,423
SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION August 28, 2001 (Use several sheets if necessary)		APPLICANT Arnthor Aevansson, et al.	
		FILING DATE June 11, 2001	
		GROUP Not assigned	
U.S. PATENT DOCUMENTS			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
mm	AX5	Evarsson, A., et al., "Crystal structure of human branched-chain α -ketoacid dehydrogenase and the molecular basis of multienzyme complex deficiency in maple syrup urine disease", <i>Structure</i> , 8(3):277-291 (2000).	
	AY5	Kuntz, I.D., "Structure-Based Strategies for Drug Design and Discovery", <i>Science</i> , 257:1078-1082 (1992).	
	AZ5	Verlinde and Hol, "Structure-based drug design: progress, results and challenges", <i>Structure</i> , 2:577-587 (1994).	
	AR6	Ring, C.S., et al., "Structure-based inhibitor design by using protein models for the development of antiparasitic agents", <i>Proc. Natl. Acad. Sci. USA</i> , 90:3583-3587 (1993).	
mm	AS6	Evarsson, A., et al., "Crystal structure of 2-oxoisovalerate and dehydrogenase and the architecture of 2-oxo acid dehydrogenase multienzyme complexes", <i>Nature Structural Biology</i> , 6(8):785-792 (1999).	
EXAMINER		DATE CONSIDERED	
		12/04	

RECEIVED

DEC 07 2001

TECH CENTER 1600/2900